PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: MONEY £	7
D YOUNG & COORDER	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT
Attn. Denho DIAMMA Z YINE YO	OR THE DECLARATION
21 New Fetter Lane	CONTRACTOR OR THE DECLARATION
London EC4A RECA	1
UNITED KINGRONDON) -8 APR 2004	る No. 可能 (PCT Rule 44.1)
ANSO	The state of the s
ENTRY STATES	Date of mailing
TO POR FOR ME CONTRACTOR	(day/month/year) 02/04/2004
	02/04/2004
Applicant's or agent's file reference	FOR FURTHER ACTION
Mariana Caraba	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/GB 03/03436	(day/month/year) 06/08/2003
Applicant	
Applicant	
DANISCO A/S	
1. X The applicant is hereby notified that the International Search	Report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):
When? The time limit for filing such amendments is norma International Search Report; however, for more de	lly 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO	
34, chemin des Colombettes 1211 Geneva 20, Switzerland	
Fascimile No.: (41-22) 740.14.35	
For more detailed instructions, see the notes on the accordance	mpanying sheet.
, or more detailed mediation, see the more than a	
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has beer applicant's request to forward the texts of both the prot	n transmitted to the International Bureau together with the est and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap	plication will be published by the International Bureau.
If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided i completion of the technical preparations for international publica	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for internations wishes to postpone the entry into the national phase until 30 mo	al preliminary examination must be filed if the applicant nths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the
<u> </u>	The state of the s

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Fax: (+31-70) 340-3016

Authorized officer

Marilú Masserut

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION						
International application No.	International filing date (d	ay/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/GB 03/03436	06/08/	2003	06/08/2002				
Applicant							
DANISCO A/S							
This International Search Report according to Article 18. A copy is	t has been prepared by this Internations being transmitted to the Internationa	nal Searching Auth al Bureau.	nority and is transmitted to the applicant				
	t consists of a total of8 panied by a copy of each prior art doc		report.				
1. Basis of the report							
 a. With regard to the langulanguage in which it was 	uage, the international search was ca s filed, unless otherwise indicated unc	rried out on the bas der this item.	sis of the international application in the				
the international Authority (Rule 2	search was carried out on the basis 23.1(b)).	of a translation of the	he international application furnished to this				
was carried out on the b	eotide and/or amino acid sequence pasis of the sequence listing: international application in written for	•	nternational application, the international search				
	ith the international application in com		n.				
	equently to this Authority in written for	·	•••				
	equently to this Authority in computer of						
	· · · · · · · · · · · · · · · · · · ·		loes not go beyond the disclosure in the				
			s identical to the written sequence listing has been				
\sqsubseteq	were found unsearchable (See Box	c I).					
3. Unity of inventi	ion is lacking (see Box II).						
4. With regard to the title,							
	oved as submitted by the applicant.						
_	en established by this Authority to read						
USE OF LACTOBAC COMPOSITIONS	ILLUS TO PRODUCE EXOPO	LYSACCHARID	DES IN FOOD AND PHARMACEUTICAL				
5. With regard to the abstract,	,						
L	ved as submitted by the applicant.						
the text has been within one month	n established, according to Rule 38.2 h from the date of mailing of this inter	(b), by this Authori national search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.				
	to be published with the abstract is Fig	gure No.	8				
as suggested by	• •		None of the figures.				
	plicant failed to suggest a figure.						
because this figu	ure better characterizes the invention	•	•				

Form PCT/ISA/210 (first sheet) (July 1998)

International application No. PCT/GB 03/03436

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Int	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple Inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 4-9 completely, and 1-3 and 15-43 partially

Use of Lactobacilli to produce exopolysaccharides in food and cosmetic compositions, and products obtained thereby.

1.1. claims: 1-9 and 15-43, all partially

Use as above, whereby Lactobacillus sakei spp. capable of producing a glucan sucrase is used.

1.2. claims: 1-9 and 15-43, all partially

Use as above, whereby Lactobacillus plantarum spp. capable of producing a glucan sucrase is used.

1.3. claims: 1-9 and 15-43, all partially

Use as above, whereby Lactobacillus salivarium spp. capable of producing a glucan sucrase is used.

2. claims: 10-14 completely, and 1-3 and 15-43 partially

Use of Leuconostoc to produce exopolysaccharides in food and cosmetic compositions, and products obtained thereby.

International Application No PCT/GB 03/03436

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12P19/04 A23C9/123 //C12R1/225

A23C9/20

A23L1/30

C12N9/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12P A23L A23C C12N A23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
WO 94/12656 A (QUEST INT ;DEN BERG DIRK JOHANNES CORNELI (NL); LEDEBOER ADRIANUS) 9 June 1994 (1994-06-09) cited in the application abstract; example 7 page 9, line 15 - line 17	1-5,7-9, 15-43				
WO 01/57234 A (AHLGREN JEFFREY A ;SANDINE WILLIAM E (US); KNOSHAUG ERIC P (US); 0) 9 August 2001 (2001-08-09) cited in the application the whole document	1-4, 15-35, 38-43 5-9,36, 37				
-/					
	WO 94/12656 A (QUEST INT; DEN BERG DIRK JOHANNES CORNELI (NL); LEDEBOER ADRIANUS) 9 June 1994 (1994-06-09) cited in the application abstract; example 7 page 9, line 15 - line 17 WO 01/57234 A (AHLGREN JEFFREY A; SANDINE WILLIAM E (US); KNOSHAUG ERIC P (US); 0) 9 August 2001 (2001-08-09) cited in the application the whole document				

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the International filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the International search report 0.5.04.2004
23 March 2004 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Smalt, R

international Application No
PCT/GB 03/03436

Y VAN GEEL-SCHUTTEN G H ET AL: "Screening and characterization of Lactobacillus strains producing large amounts of exopolysaccharides" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY 1998 GERMANY, vol. 50, no. 6, 1998, pages 697-703, XP002260931 1SSN: 0175-7598 the whole document X VAN GEEL-SCHUTTEN, G H ET AL.: "Biochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by Lactobacillus reuteri wild-type and mutant strains" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 53-72, XP002191551 ISSN: 0099-2240 the whole document X VAN HIJUM, S.A.F.T. ET AL.: "Molecular characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2->1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240 the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 1-3, 24 April 1984 (1984-04-24) the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document X EP 0 881 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document X US 00/47727 A (MAX PLANCK GESELLSCHAFT; 1-3, KOSSMANN JENS (DE); KNUTH KAROLA (DE); 10-1			PCT/GB 03/03436
Y VAN GEEL-SCHUTTEN G H ET AL: "Screening and characterization of Lactobacillus strains producing large amounts of exopolysaccharides" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY 1998 GERMANY, vol. 50, no. 6, 1998, pages 697-703, XP002260931 ISSN: 0175-7598 the whole document X VAN GEEL-SCHUTTEN, G H ET AL.: "Biochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by Lactobacillus reuteri wild-type and mutant strains" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 53-72, XP002191551 ISSN: 0099-2240 the whole document X VAN HIJUM, S.A.F.T. ET AL.: "Molecular characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2)1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240 the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 1-3, 24 April 1984 (1984-04-24) the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document X US 9 81 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document X US 00/47727 A (MAX PLANCK GESELLSCHAFT; 1-3, KOSSMANN JENS (DE); KNUTH KAROLA (DE); 10-1	•		
and characterization of Lactobacillus strains producing large amounts of exopolysaccharides" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY 1998 GERMANY, vol. 50, no. 6, 1998, pages 697-703, XP002260931 ISSN: 0175-7598 the whole document X VAN GEEL-SCHUTTEN, G H ET AL.: "Blochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by Lactobacillus reuteri wild-type and mutant strains" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 53-72, XP002191551 ISSN: 0099-2240 the whole document X VAN HIJUM, S.A.F.T. ET AL.: "Molecular characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2->1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240 the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document X EP 0 881 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document X WO 00/47727 A (MAX PLANCK GESELLSCHAFT; 1-3, KOSSMANN JENS (DE); KNUTH KAROLA (DE);	Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
"Biochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by Lactobacillus reuteri wild-type and mutant strains" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 53-72, XP002191551 ISSN: 0099-2240 the whole document X VAN HIJUM, S.A.F.T. ET AL.: "Molecular characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2->1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240 the whole document X US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document X EP 0 881 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document X WO 00/47727 A (MAX PLANCK GESELLSCHAFT; 1-3, KOSSMANN JENS (DE); KNUTH KAROLA (DE); 10-1	Y	and characterization of Lactobacillus strains producing large amounts of exopolysaccharides" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY 1998 GERMANY, vol. 50, no. 6, 1998, pages 697-703, XP002260931 ISSN: 0175-7598	5-9,36, 37
characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2->1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON,DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240 the whole document US 4 444 793 A (BODIE ELIZABETH A ET AL) 24 April 1984 (1984-04-24) the whole document EP 0 881 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document WO 00/47727 A (MAX PLANCK GESELLSCHAFT; KOSSMANN JENS (DE); KNUTH KAROLA (DE);	X	"Biochemical and structural characterization of the glucan and fructan exopolysaccharides synthesized by Lactobacillus reuteri wild-type and mutant strains" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 53-72, XP002191551 ISSN: 0099-2240	1-4, 15-35, 38-43
24 April 1984 (1984-04-24) the whole document EP 0 881 283 A (NESTLE SA) 2 December 1998 (1998-12-02) the whole document WO 00/47727 A (MAX PLANCK GESELLSCHAFT; KOSSMANN JENS (DE); KNUTH KAROLA (DE);	(characterization of a novel fructosyltransferase from Lactobacillus reuteri synthesizing a high molecular weight fructan with beta-(2->1) linked frunctosyl units in Escherichia coli" APPLIED AND ENVIRONMENTAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 65, 1999, pages 73-95, XP002264246 ISSN: 0099-2240	1-4, 15-35, 38-43
2 December 1998 (1998-12-02) the whole document WO 00/47727 A (MAX PLANCK GESELLSCHAFT; KOSSMANN JENS (DE); KNUTH KAROLA (DE); 10-1 19-4 19-4 19-4	(24 April 1984 (1984-04-24)	1-3, 10-17, 19-43
WO 00/47727 A (MAX PLANCK GESELLSCHAFT; 1-3, KOSSMANN JENS (DE); KNUTH KAROLA (DE); 10-1	(2 December 1998 (1998-12-02)	1-3, 10-17, 19-43
QUANZ) 1/ August 2000 (2000-08-17) 19-4 the whole document	X	WO 00/47727 A (MAX PLANCK GESELLSCHAFT; KOSSMANN JENS (DE); KNUTH KAROLA (DE); QUANZ) 17 August 2000 (2000-08-17)	1-3, 10-17, 19-43
EP 0 790 003 A (PURATOS NV) 20 August 1997 (1997-08-20) page 3, line 3 - line 20	4	20 August 1997 (1997-08-20)	

International Application No
PCT/GB 03/03436

		PCT/GB 03/03436		
(Continu itegory °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
- <i>'</i>	. ,, ,	Too valit to ballit 190,		
P,X	WO 03/008618 A (TNO ;VAN GEEL-SCHUTTEN GERRITDINA H (NL)) 30 January 2003 (2003-01-30) examples 1,2,6	1-19, 33-39, 41-43		
A	DATABASE WPI Section Ch, Week 200065 Derwent Publications Ltd., London, GB; Class A11, AN 2000-670970 XP002274658 & KR 2000 003 189 A (KIM D M) 15 January 2000 (2000-01-15) abstract			
4	ZAHNLEY J C ET AL: "Glycosyltransferase profiles of representative strains of Leuconostoc mesenteroides" FASEB JOURNAL, vol. 11, no. 9, 1997, page A1420, XP001160862 17th International Congress of Biochemistry and Molecular Biology in conjunction with the Annual Mee;San Francisco, California, USA; August 24-29, 1997 ISSN: 0892-6638 the whole document			

Information on patent family members

International Application No
PCT/GB 03/03436

Patent document		Publication		Patent family	Publication
cited in search report		date		member(s)	date
WO 9412656	Α	09-06-1994	AT	169060 T	15-08-1998
			AU	691165 B2	14-05-1998
			AU	5628794 A	22-06-1994
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			DE	69320067 D1	03-09-1998
			DE	69320067 T2	18-02-1999
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			WO	9412656 A1	09-06-1994
			EP JP	0690922 A1	10-01-1996
			US	8504578 T	21-05-1996
			ZA	5834043 A	10-11-1998
~				9308903 A 	29-05-1995
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			EP	1255447 A2	13-11-2002
				0157234 A2	09-08-2001
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			AU	736106 B2	26-07-2001
			AU	6901598 A	03-12-1998
			BR	9801736 A	11-01-2000
			CA	2233411 A1	30-11-1998
			CN	1201039 A	09-12-1998
			CZ	9801669 A3	13-01-1999
			HU	9801263 A2	28-07-1999
			ID	20359 A	03-12-1998
			IL	123979 A	06-12-2000
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